

TEST AREA PORTION OF BRABB AND PAMPEYAN'S  
PRELIMINARY MAP OF LANDSLIDE DEPOSITS IN  
SAN MATEO COUNTY, CALIFORNIA, 1972

MAP SYMBOLS

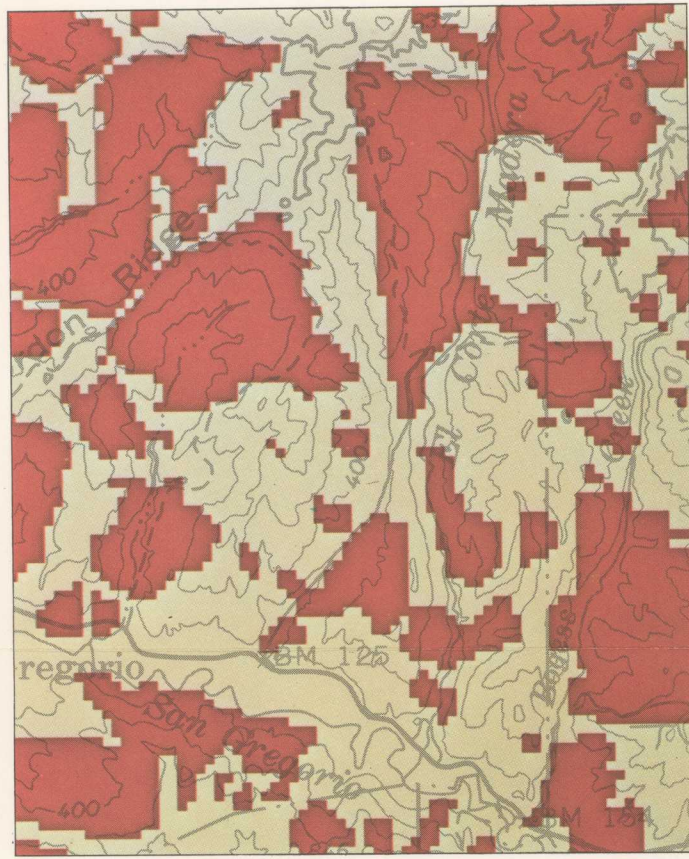
LANDSLIDE DEPOSITS MAPPED BY PHOTOINTERPRETATION



Large landslide deposit  
More than 500 feet in maximum dimension. Arrows  
indicate general direction of down slope movement  
(omitted for lack of space on some landslides). D,  
definite landslide deposit; P, probable landslide  
deposit; ?, questionable landslide deposit. Hachured  
line shows the approximate position of an inferred  
main scarp



Small landslide deposit  
50 to 500 feet in maximum dimension. Arrow  
indicates general direction of downslope move-  
ment and is centered over location of deposit.



COMPUTER VERSION OF THE LANDSLIDE DEPOSIT MAP

EXPLANATION

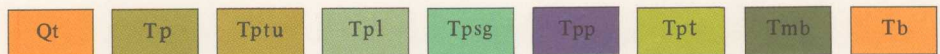


Landslide deposit  
Units include deposits and scarps but exclude the small landslide  
deposits. Boundaries were digitized from map 1, converted into  
grid cells by computer, and plotted.

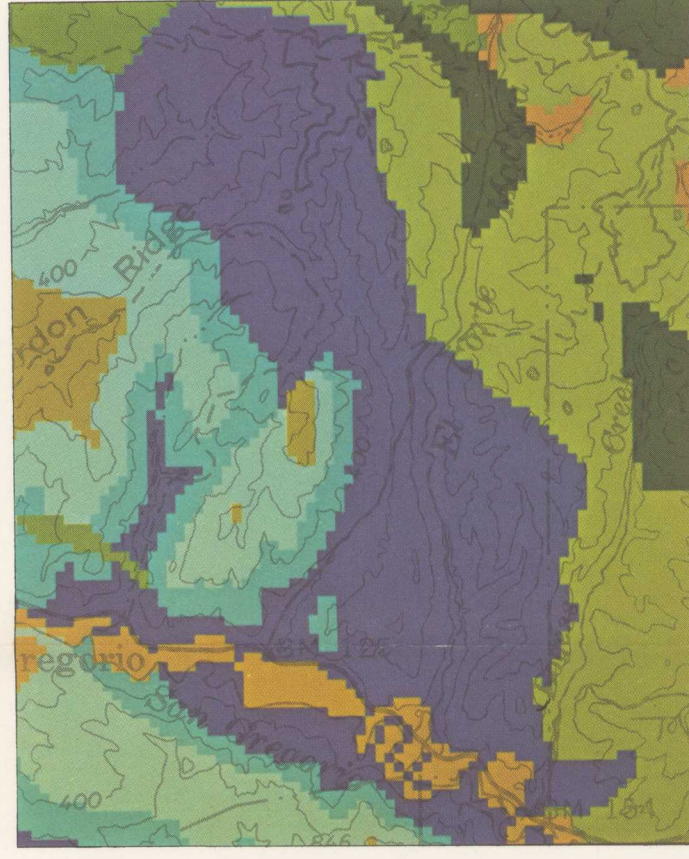


TEST AREA PORTION OF BRABB AND PAMPEYAN'S PRE-  
LIMINARY GEOLOGIC MAP OF SAN MATEO COUNTY,  
CALIFORNIA, 1972

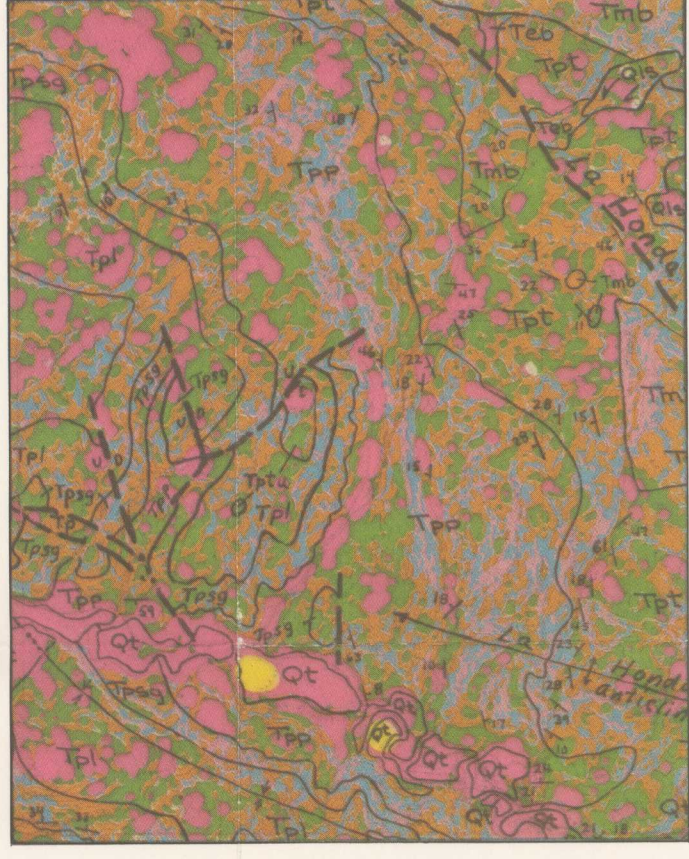
EXPLANATION



See table 1 for rock unit description



COMPUTER VERSION OF MAP 3. THE UNIT BOUNDARIES  
WERE DIGITIZED FROM MAP 3, CONVERTED INTO GRID  
CELLS BY COMPUTER, AND PLOTTED



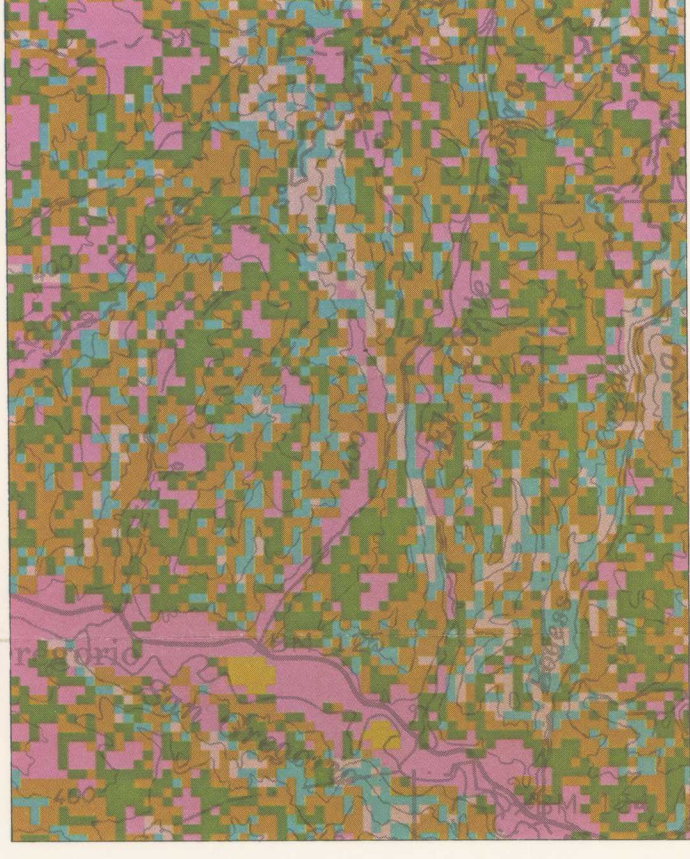
TEST AREA PORTION OF EXPERIMENTAL SLOPE MAP OF  
SAN MATEO COUNTY, PREPARED BY MANUAL AND  
PHOTOMECHANICAL METHODS

EXPLANATION

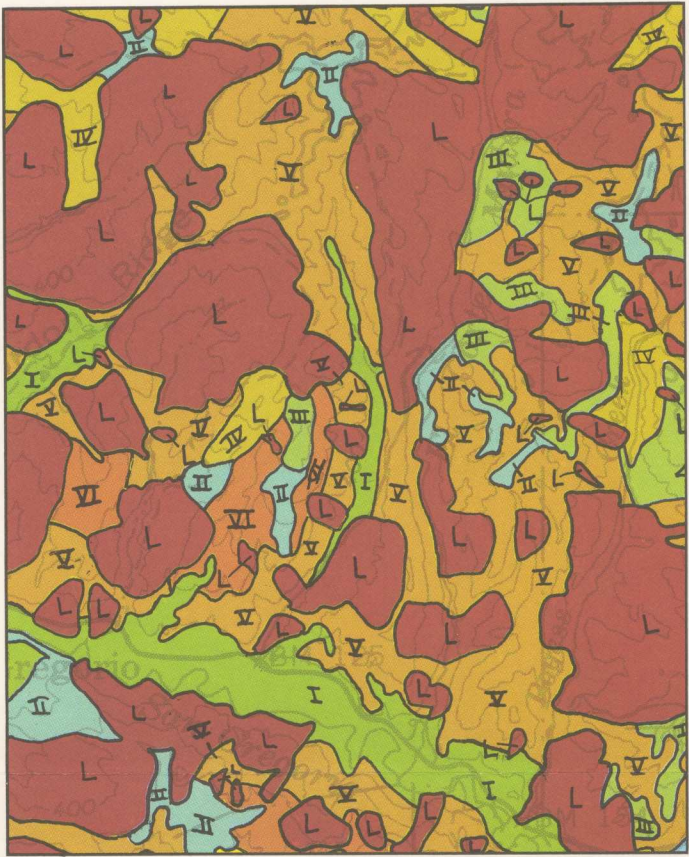


Percent slope intervals

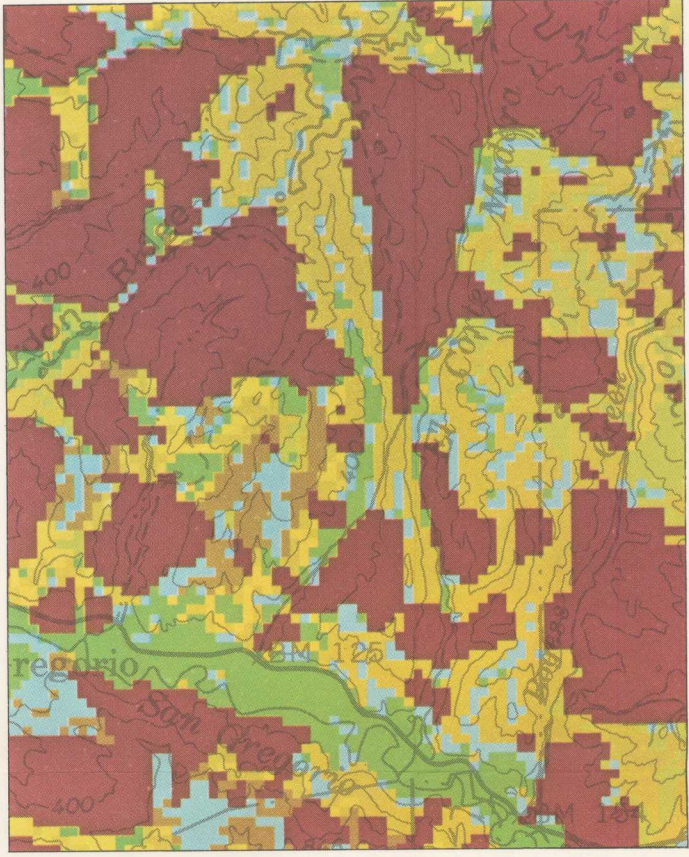
The intervals were selected after interviews with city, county, and  
regional planners in order to determine which slope categories  
would be most useful



COMPUTER VERSION OF MAP 5. SLOPE INTERVAL VALUES  
WERE CONVERTED INTO GRID-CELL FORM BY OVERLAY-  
ING THE ORIGINAL MAP WITH A GRID, DIGITIZING  
DIRECTLY, AND PLOTTING



TEST AREA PORTION OF BRABB, PAMPEYAN, AND  
BONILLA'S MAP OF LANDSLIDE SUSCEPTIBILITY  
IN SAN MATEO COUNTY, CALIFORNIA, 1972



COMPUTER VERSION OF MAP 7. UNIT BOUNDARIES  
DETERMINED BY ANALYZING LANDSLIDE,  
GEOLOGIC, AND SLOPE GRID CELL DATA,  
THEN ASSIGNING SUSCEPTIBILITY  
NUMBERS FROM TABLE 1 IN TEXT

EXPLANATION OF LANDSLIDE SUSCEPTIBILITY MAP UNITS



AREAS LEAST SUSCEPTIBLE TO LANDSLIDING - Very small land-  
slides in these areas. Formation of large landslides is possible but  
unlikely except during earthquakes. Slopes generally less than 15 per-  
cent, but may include small areas of steeper slopes that could have  
higher susceptibility. Some of the areas may be more susceptible to  
landsliding if they are overlain by thick deposits of soil, slope wash,  
or ravine fill. Rockfalls may also occur on steep slopes. Also includes  
areas along creeks and rivers that may fail by landsliding during  
earthquakes. If area is adjacent to area with higher susceptibility, a  
landslide may encroach onto the area



LOW SUSCEPTIBILITY TO LANDSLIDING - Several small landslides  
have occurred in these areas and some have caused extensive damage  
to homes and roads. A few large landslides may occur. Slopes vary  
from 6 to 15 percent for unstable rock units to more than 70 percent  
for rock units that seem to be stable. Other slope stability problems  
are mentioned in 1 above



MODERATE SUSCEPTIBILITY TO LANDSLIDING - Many small land-  
slides have occurred in these areas and several have caused extensive  
damage to homes and roads. Some large landslides likely. Slopes vary



from 16 to 30 percent in areas underlain by unstable rock units, up  
to 70 percent for rock units that seem to be stable. See 1 for addi-  
tional slope stability problems



MODERATELY HIGH SUSCEPTIBILITY TO LANDSLIDING - Slopes  
all greater than 31 percent. Several large landslides likely. See 1 for  
additional slope stability problems

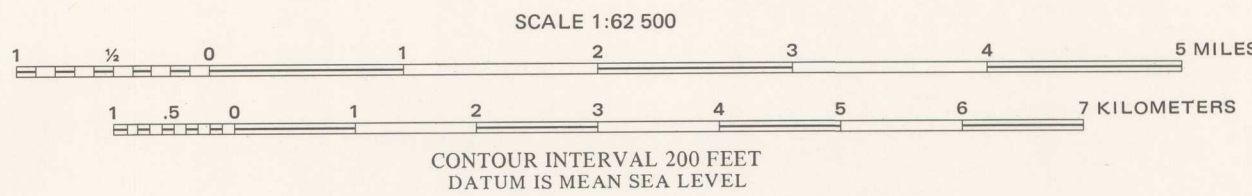


HIGH SUSCEPTIBILITY TO LANDSLIDING - Slopes all greater than  
31 percent. Many large and small landslides may occur. See 1 for  
additional slope stability problems



VERY HIGH SUSCEPTIBILITY TO LANDSLIDING - Slopes all greater  
than 31 percent. Many large and small landslides are likely. See 1 for  
additional slope stability problems

HIGHEST SUSCEPTIBILITY TO LANDSLIDING - Consists of landslide  
and possible landslide deposits. No small landslide deposits are shown.  
Some of these areas may be relatively stable and suitable for develop-  
ment, whereas others are active and causing damage to roads, houses  
and other cultural features



Index map showing San Mateo County, California, and location of test area

# COMPARISON OF MANUAL AND COMPUTER-GENERATED MAPS OF TEST AREA IN SAN MATEO COUNTY, CALIFORNIA